

* * * * *
 FILE 'USPAT' ENTERED AT 13:24:54 ON 28 AUG 96
 * * * * *
 * W E L C O M E T O T H E *
 * U . S . P A T E N T T E X T F I L E *
 * * * * *

=> s electrical slip ring
 480406 ELECTRICAL
 79612 SLIP

417287 RING

L1 86 ELECTRICAL SLIP RING
 (ELECTRICAL(W) SLIP(W) RING)

=> s electric slip ring
 368962 ELECTRIC
 79612 SLIP

417287 RING

L2 11 ELECTRIC SLIP RING
 (ELECTRIC(W) SLIP(W) RING)

=> s l1 or l2

L3 95 L1 OR L2

=> s photodetect!r or (photo detect!r)

16769 PHOTODETECT!R
 59842 PHOTO
 164434 DETECT!R
 4541 PHOTO DETECT!R
 (PHOTO(W) DETECT!R)

L4 19634 PHOTODETECT!R OR (PHOTO DETECT!R)

=> s l3 and l4

L5 1 L3 AND L4

=> d 1

1. 4,711,516, Dec. 8, 1987, Optical slip ring; David W. Graber, 385/26
 [IMAGE AVAILABLE]
 => d 1 kwic

US PAT NO: 4,711,516 [IMAGE AVAILABLE]

L5: 1 of 1

DETDESC:

DETD(1)

FIG. . . . and 46, respectively, extending between the slip ring
 assembly and a control circuit 48 mounted in the steering wheel. An
 electrical **slip** **ring** brush 50 is secured on the lock plate 32
 adjacent the aperture 42 and aligned with the outer retainer ring. . .
 the surface of the transparent ring 54 and is connected to the control
 circuit 48 by the conductors 44. A **photodetector** assembly 60 mounted
 on the transparent ring 56 is connected to conductors 62, which extend
 down the steering column. The control circuit 48, thus, is powered
 through the **electrical** **slip** **ring** arrangement and conductor
 46. The control circuit interprets signals from actuators represented by
 a push button switch 63 on the. . .
 =>

08/401,229

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* * * * *

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=> s electrical slip ring
    480406 ELECTRICAL
    79612 SLIP

```

```

    417287 RING

```

```

L1           86 ELECTRICAL SLIP RING
            (ELECTRICAL(W) SLIP(W) RING)

```

```

=> s electric slip ring
    368962 ELECTRIC
    79612 SLIP

```

```

    417287 RING

```

```

L2           11 ELECTRIC SLIP RING
            (ELECTRIC(W) SLIP(W) RING)

```

```

=> s l1 or l2

```

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L3           95 L1 OR L2

```

```

=> s photodetect!r or (photo detect!r)

```

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    16769 PHOTODETECT!R
    59842 PHOTO
    164434 DETECT!R
    4541 PHOTO DETECT!R
        (PHOTO(W) DETECT!R)

```

```

L4           19634 PHOTODETECT!R OR (PHOTO DETECT!R)

```

```

=> s l3 and l4

```

```

L5           1 L3 AND L4

```

```

=> d 1

```

```

1. 4,711,516, Dec. 8, 1987, Optical slip ring; David W. Graber, 385/26
[IMAGE AVAILABLE]

```

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=>

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